AMENDMENTS TO THE CLAIMS

Please amend claims 1, 3, 6 and 8 as follows:

1. (currently amended) An isolated DNA sequence encoding an antifungal protein having an amino acid sequence which is at least 80% identical to ~~the~~ Rs-AFP2 (SEQ ID NO: 9), ~~sequence shown in Figure 1 and containing~~wherein said amino acid sequence of said antifungal protein contains at least one mutation selected ~~form~~ from the group consisting of a basic residue at the position corresponding to position 9 in ~~RsAFP-2~~Rs-AFP2 (SEQ ID NO: 9), a basic residue at the position corresponding to position 39 in ~~Rs-AFP-2~~Rs-AFP2 (SEQ ID NO: 9), a hydrophobic residue at the position corresponding to position 5 in ~~Rs-AFP-2~~Rs-AFP2 (SEQ ID NO: 9) and a hydrophobic residue other than glycine at the position corresponding to position 16 in ~~Rs-AFP-2~~Rs-AFP2 (SEQ ID NO: 9).

2. (original) A vector containing a DNA sequence as claimed in claim 1.

3. (currently amended) A biological system ~~including~~ comprising the DNA sequence as claimed in claim 1, wherein said biological system is capable of expressing ~~such that~~ the encoded protein ~~is expressed~~.

4. (canceled)

5. (canceled)

6. (currently amended) An isolated DNA sequence encoding an antifungal protein having an amino acid sequence selected from the group consisting of Rs-AFP2 (SEQ ID NO: 9), Rs-AFP1 (SEQ ID NO: 8), Rs-AFP3 (SEQ ID NO: 10) and Rs-AFP4 (SEQ ID NO: 11), wherein said amino acid sequence of said antifungal protein contains at least one mutation selected from the group consisting of a basic residue at the position corresponding to position 9 in ~~RsAFP-2~~Rs-AFP2 (SEQ ID NO: 9), a basic residue at the

position corresponding to position 39 in ~~Rs-AFP-2~~Rs-AFP2 (SEQ ID NO: 9), a hydrophobic residue at the position corresponding to position 5 in ~~Rs-AFP-2~~Rs-AFP2 (SEQ ID NO: 9) and a hydrophobic residue other than glycine at the position corresponding to position 16 in ~~Rs-AFP-2~~Rs-AFP2 (SEQ ID NO: 9).

7. (original) A vector containing a DNA sequence as claimed in claim 6.

8. (currently amended) A biological system ~~including~~ comprising the DNA sequence as claimed in claim 6, wherein said biological system is capable of expressing ~~such that~~ the encoded protein ~~is expressed~~.

9. (canceled)

10. (canceled)